

CLAIMS

Having thus described the invention, what is claimed is:

1. An expandable forming tool ^{integrated} ~~having~~ ^{for mounting in a punch press} ~~at the bottom~~ having:

- (a) a body with a mounting stem on its upper surface and a transversely extending channel in its lower surface;
- (b) a wedge-shaped actuator having its smaller end slidably seated in said channel for movement vertically therein and having its larger end normally depending ^{and having an end surface for compacting upon the workpiece} from said body, said actuator having upwardly inwardly sloping side surfaces;
- (c) a pair of slide members slidably seated in said channel on opposite sides of said wedge-shaped actuator and having cooperating angular surfaces slidably bearing on said sloping side surfaces of said actuator;
- (d) slide member ^{spring} biasing means biasing said slide members against said sloping side surfaces of said actuator; and
- (e) actuator ^{spring} biasing means biasing said actuator outwardly of said body, said actuator being driven vertically inwardly of said channel by movement of said larger end against an opposing surface, ^{by action of the} said inward movement of said actuator pushing said slide members outwardly in said channel so as to project beyond the periphery of said body.

remote
add

movement of the punch press
ram

compress

1 + 2
1 + 3